

**To:** Lowy, Michael[Lowy.Michael@epa.gov]  
**From:** Pabst, Douglas  
**Sent:** Sat 9/17/2016 9:00:46 PM  
**Subject:** FW: Biotrial Next Steps  
[Microsoft Word - 130 Norfolk Street 09-12-16 \(2\).pdf](#)

Douglas Pabst  
Chief, Drinking Water and Municipal Infrastructure Branch  
USEPA Region 2  
Clean Water Division  
290 Broadway  
New York, New York 10007-1866  
Telephone: 212-637-3797  
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Email: [pabst.douglas@epa.gov](mailto:pabst.douglas@epa.gov)  
[www.epa.gov](http://www.epa.gov)

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**From:** Allison Kinnucan [<mailto:Allison.Kinnucan@biotrial.com>]  
**Sent:** Friday, September 16, 2016 1:53 PM  
**To:** Pabst, Douglas <[Pabst.Douglas@epa.gov](mailto:Pabst.Douglas@epa.gov)>  
**Subject:** TR: Biotrial Next Steps

Doug,

This is the last message that I have received from the City of Newark with partial test results.

Thank you,  
Allison

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**De :** Adebowale, Andrea [<mailto:Adebowalea@ci.newark.nj.us>]  
**Envoyé :** jeudi 15 septembre 2016 16:25  
**À :** Allison Kinnucan  
**Cc :** Magdalena Padilla; Patricia Gardner; Owen Nurse; Gelin, Michel; Pierre Ollivier; [Dan.Kennedy@dep.nj.gov](mailto:Dan.Kennedy@dep.nj.gov); [cschneider@1ssh.com](mailto:cschneider@1ssh.com)  
**Objet :** RE: Biotrial Next Steps

See results for residual chlorine, color, turbidity and bacteria. The iron and lead analyses will be completed by early next week. The results show that the water entering the building has acceptable levels for color and turbidity. The water after travelling through the building has high levels of turbidity and color. This is an internal problem.

*Andrea Hall Adebowale, Director  
Department of Water & Sewer Utilities  
(973) 733-6303*

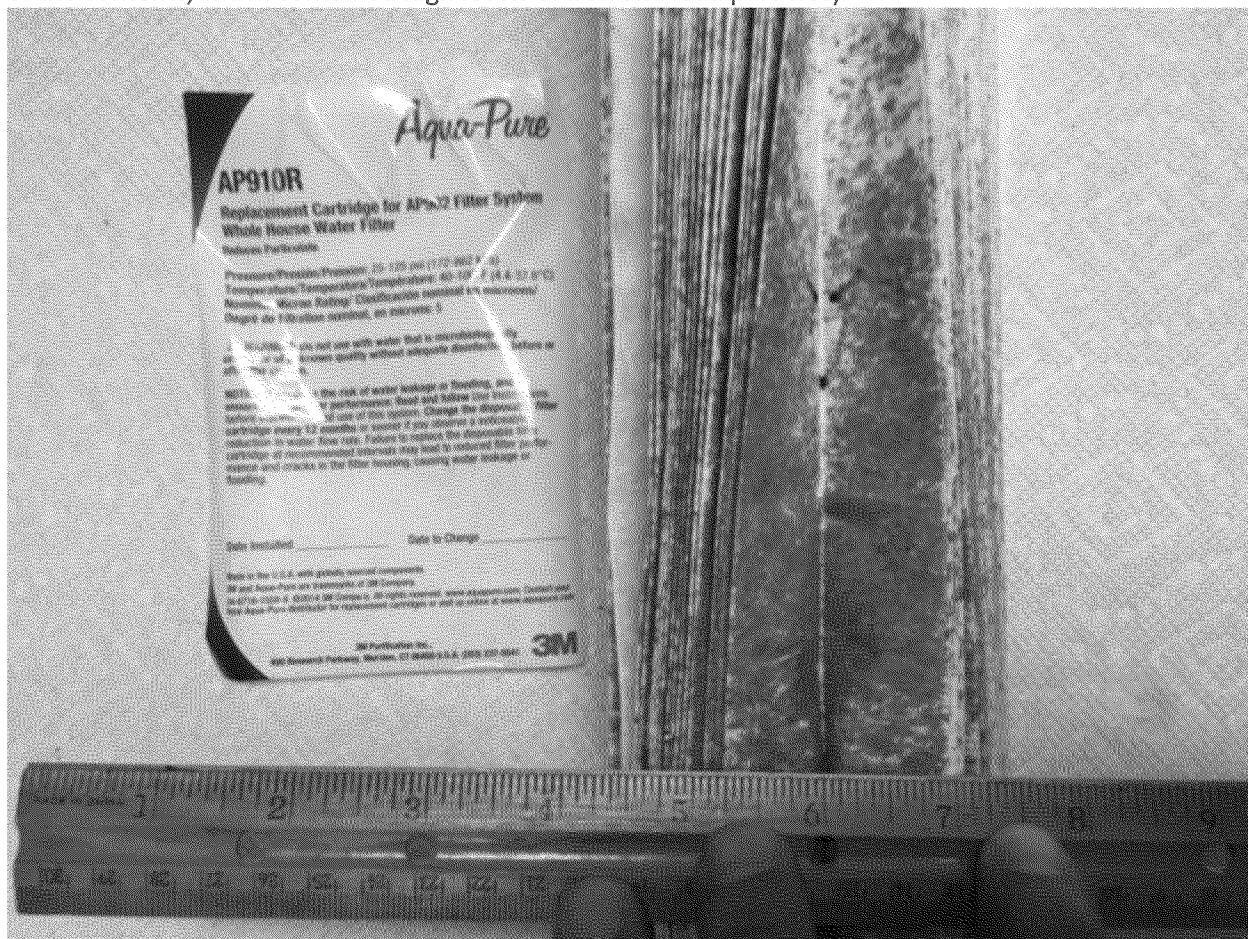
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**From:** Allison Kinnucan [<mailto:Allison.Kinnucan@biotrial.com>]  
**Sent:** Tuesday, September 13, 2016 2:08 PM  
**To:** Adebowale, Andrea  
**Cc:** Magdalena Padilla; Patricia Gardner; Owen Nurse; Gelin, Michel; Pierre Ollivier; [Dan.Kennedy@dep.nj.gov](mailto:Dan.Kennedy@dep.nj.gov); [cschneider@1ssh.com](mailto:cschneider@1ssh.com)  
**Subject:** RE: Biotrial Next Steps  
**Importance:** High

Andrea,

We do not have a system filtering the water in the building. The filter is to be able to check if the water coming into the building is

clear or not – this is done by running the water through a filter at the entry point in the basement and then out through a hose. We performed the same test in February, prior to contacting the City. At that time we had iron and lead particles coming into the building (please see below a picture of the previous filter – I have provided this information to your team as well as the lab analysis of the contents, which contained high levels of iron and lead particles).



Owen is going to open the filter and send me pictures of the contents - given the color of the water, I would not be surprised if we still have iron and lead particles coming into the building.

Allison

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**De :** Adebowale, Andrea [<mailto:Adebowalea@ci.newark.nj.us>]

**Envoyé :** mardi 13 septembre 2016 19:49

**À :** Allison Kinnucan

**Cc :** Magdalena Padilla; Patricia Gardner; Owen Nurse; Gelin, Michel; Pierre Ollivier; [Dan.Kennedy@dep.nj.gov](mailto:Dan.Kennedy@dep.nj.gov); [cschneider@1ssh.com](mailto:cschneider@1ssh.com)

**Objet :** RE: Biotrial Next Steps

We do not know anything about your filtration system. Sample the water prior to the filtration and see what it looks like. Apparently, your filtration system may be the problem.

*Andrea Hall Adebowale, Director  
Department of Water & Sewer Utilities  
(973) 733-6303*

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**From:** Allison Kinnucan [<mailto:Allison.Kinnucan@biotrial.com>]

**Sent:** Tuesday, September 13, 2016 1:41 PM

**To:** Adebowale, Andrea

**Cc:** Magdalena Padilla; Patricia Gardner; Owen Nurse; Gelin, Michel; Pierre Ollivier; [Dan.Kennedy@dep.nj.gov](mailto:Dan.Kennedy@dep.nj.gov); [cschneider@1ssh.com](mailto:cschneider@1ssh.com)

**Subject:** RE: Biotrial Next Steps

**Importance:** High

Andrea,

If it is helpful, I am willing to go through all of the testing and inspections that we have performed in our building prior to contacting the City of Newark in March regarding this issue. We have neither iron nor lead pipes in our building. Given the type of particles coming into the building, we have demonstrated that they cannot be coming from our pipes.

The problem is not isolated to the 4<sup>th</sup> floor. Please find below a picture of the filter that Owen installed in the basement following last Wednesday's flushing. Attached you will find a video of the water that he poured out of the filter this morning.



I would appreciate if someone could give a scientific explanation as to how our building could be causing this problem? When you said that the water is "clear" is this based on a lab test?

Thank you,  
Allison

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**De :** Adebowale, Andrea [<mailto:Adebowalea@ci.newark.nj.us>]

**Envoyé :** mardi 13 septembre 2016 18:32

**À :** Allison Kinnucan

**Cc :** Magdalena Padilla; Patricia Gardner; Owen Nurse; Gelin, Michel; Pierre Ollivier; [Dan.Kennedy@dep.nj.gov](mailto:Dan.Kennedy@dep.nj.gov)

**Objet :** RE: Biotrial Next Steps

Allison,

The City of Newark took samples from the basement and the 4th floor yesterday. The basement sample was clear and the 4th floor sample was discolored. If the City's water is of poor quality, all samples would be discolored. Additionally, the basement sample would be the worse as it is closest to our supply. It is apparent you have an internal problem. We strongly recommend you inspect your internal plumbing system including injector pumps and filtration systems.

Owen can contact Mike Gelin if he needs further clarification. We will forward the lab results as soon as they are available.

*Andrea Hall Adebowale, Director  
Department of Water & Sewer Utilities*

*Sent from my Verizon 4G LTE Droid*

On Sep 12, 2016 2:50 PM, Allison Kinnucan <[Allison.Kinnucan@biotrial.com](mailto:Allison.Kinnucan@biotrial.com)> wrote:

Hello all,

Please allow me to contact you as I have been notified by our Facilities Manager, Owen Nurse, that as of this morning, we are still experience extremely poor water quality in our building. This is following the flushing and inspections that were performed on September 7<sup>th</sup>. I apologize in advance for the rather unpleasant nature of the video that I am forwarding, but I prefer to keep you informed as to the ongoing problem. Owen took this video in our facilities around 8:30 am this morning in one of the 4<sup>th</sup> floor restrooms.

I understand that the City of Newark stopped by our facilities to take water samples later in the morning, and I assume that the results will be available in a few days. I would like to share with you that we are preparing a very important event in our facilities in September 30<sup>th</sup> to inaugurate the building. In addition to very important clients, a variety of local partners and international political representatives will be present. The thought of what our guests reaction would be if they were to encounter a similar water quality during the event is enough to keep me up at night between now and then. Any thoughts or solutions you can provide would be much appreciated.

Thank you,

Allison

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**De :** Adebowale, Andrea [<mailto:Adebowalea@ci.newark.nj.us>]

**Envoyé :** lundi 29 août 2016 14:47

**À :** Allison Kinnucan; Gelin, Michel; Gardner, Patricia <[Patricia.Gardner@dep.nj.gov](mailto:Patricia.Gardner@dep.nj.gov)> ([Patricia.Gardner@dep.nj.gov](mailto:Patricia.Gardner@dep.nj.gov)); Owen Nurse; [Dan.Kennedy@dep.nj.gov](mailto:Dan.Kennedy@dep.nj.gov)

**Cc :** Pierre Ollivier; Padilla, Magdalena

**Objet :** RE: Biotrial Next Steps

Our contractor has confirmed Wednesday, September 7<sup>th</sup>. He will forward the liability insurance before that date.

*Andrea Hall Adebowale, Director*

*Department of Water & Sewer Utilities*

*(973) 733-6303*

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**From:** Allison Kinnucan [<mailto:Allison.Kinnucan@biotrial.com>]

**Sent:** Monday, August 29, 2016 6:13 AM

**To:** Adebowale, Andrea; Gelin, Michel; Gardner, Patricia <[Patricia.Gardner@dep.nj.gov](mailto:Patricia.Gardner@dep.nj.gov)> ([Patricia.Gardner@dep.nj.gov](mailto:Patricia.Gardner@dep.nj.gov)); Owen Nurse; [Dan.Kennedy@dep.nj.gov](mailto:Dan.Kennedy@dep.nj.gov)

**Cc:** Pierre Ollivier; Padilla, Magdalena

**Subject:** RE: Biotrial Next Steps

Hi Andrea, Hi all,

Please allow me to follow up as I have not received a confirmation regarding the flushing date.

Thank you in advance for your response,  
Allison

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**De :** Adebowale, Andrea [<mailto:Adebowalea@ci.newark.nj.us>]

**Envoyé :** mardi 23 août 2016 21:14

**À :** Allison Kinnucan; Gelin, Michel; Gardner, Patricia <[Patricia.Gardner@dep.nj.gov](mailto:Patricia.Gardner@dep.nj.gov)> ([Patricia.Gardner@dep.nj.gov](mailto:Patricia.Gardner@dep.nj.gov)); Owen Nurse; [Dan.Kennedy@dep.nj.gov](mailto:Dan.Kennedy@dep.nj.gov)

**Cc :** Pierre Ollivier; Padilla, Magdalena

**Objet :** RE: Biotrial Next Steps

Again, we can test for all parameters listed. The City of Newark has a certified laboratory that can and does test for lead as required by NJDEP and EPA. We will coordinate with our contractor within the next two days. We will confirm the flushing date by Thursday, August 25<sup>th</sup>.

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**From:** Allison Kinnucan [<mailto:Allison.Kinnucan@biotrial.com>]

**Sent:** Tuesday, August 23, 2016 3:07 PM

**To:** Adebowale, Andrea; Gelin, Michel; Gardner, Patricia <[Patricia.Gardner@dep.nj.gov](mailto:Patricia.Gardner@dep.nj.gov)> ([Patricia.Gardner@dep.nj.gov](mailto:Patricia.Gardner@dep.nj.gov)); Owen Nurse; [Dan.Kennedy@dep.nj.gov](mailto:Dan.Kennedy@dep.nj.gov)

**Cc:** Pierre Ollivier; Padilla, Magdalena

**Subject:** Re: Biotrial Next Steps



Thank you for your response, Andrea. The dates that work the best for us are September 6th, 7th and 8th. Please let us know which of these is possible for you.

As far as I know, please correct me if I am wrong, the City of Newark has never tested our water for lead. We know that there are lead particles entering the building because we placed a filter at the entry point and tested the filter. This is the reason that we are so insistant on knowing what is tested and when - we want to be sure that we no longer have lead coming into out building. Please confirm.

Thank you,

Allison

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**De:** Adebowale, Andrea

**Envoyé:** mardi 23 août 2016 20:57

**À:** Allison Kinnucan; Gelin, Michel; Gardner, Patricia <[Patricia.Gardner@dep.nj.gov](mailto:Patricia.Gardner@dep.nj.gov)> ([Patricia.Gardner@dep.nj.gov](mailto:Patricia.Gardner@dep.nj.gov)); Owen Nurse; [Dan.Kennedy@dep.nj.gov](mailto:Dan.Kennedy@dep.nj.gov)

**Cc:** Pierre Ollivier; Padilla, Magdalena

**Objet:** RE: Biotrial Next Steps

The testing will be done after the flushing is completed. We will test for all parameters requested as we did in the past. Please provide us available dates to perform the flushing. We need a minimum of a five day notice for our contractor.

We can schedule for any time after September 1<sup>st</sup> as long as you confirm by Friday, August 25<sup>th</sup>.

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**From:** Allison Kinnucan [<mailto:Allison.Kinnucan@biotrial.com>]

**Sent:** Tuesday, August 23, 2016 2:02 PM

**To:** Adebowale, Andrea; Gelin, Michel; Gardner, Patricia <[Patricia.Gardner@dep.nj.gov](mailto:Patricia.Gardner@dep.nj.gov)> ([Patricia.Gardner@dep.nj.gov](mailto:Patricia.Gardner@dep.nj.gov)); Owen Nurse; [Dan.Kennedy@dep.nj.gov](mailto:Dan.Kennedy@dep.nj.gov)

**Cc:** Pierre Ollivier; Padilla, Magdalena

**Subject:** RE: Biotrial Next Steps

**Importance:** High

Hello all,

Please allow me to follow up as I did not receive a response to my message below. We are still waiting to set a date to perform the flushing and subsequent tests.

Thank you,

Allison

**De :** Allison Kinnucan

**Envoyé :** jeudi 18 août 2016 17:06

**À :** Adebowale, Andrea; 'Gelin, Michel'; Gardner, Patricia <[Patricia.Gardner@dep.nj.gov](mailto:Patricia.Gardner@dep.nj.gov)> ([Patricia.Gardner@dep.nj.gov](mailto:Patricia.Gardner@dep.nj.gov)); Owen Nurse; [Dan.Kennedy@dep.nj.gov](mailto:Dan.Kennedy@dep.nj.gov)

**Cc :** Pierre Ollivier

**Objet :** RE: Biotrial Next Steps

Hello all,

After internal discussions about the next steps regarding the flushing, testing and filters, please allow me to respond to your message. Biotrial will manage the installation and inspection of filters indicated below as based on previous evidence, visual inspection of the water has not been effective in detecting the iron and lead particles entering the building. As it is a bit unclear in the responses below, we would like to clarify that all of the samples will be tested for iron, lead, color, turbidity, total heterotrophic bacteria and total coliform? Can you confirm when the samples will be collected?

Thank you,

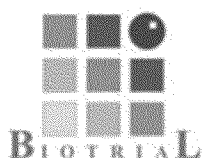
Allison

**Allison Kinnucan**

*US Project Manager*

[allison.kinnucan@biotrial.com](mailto:allison.kinnucan@biotrial.com)

[www.biotrial.com](http://www.biotrial.com)



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**De :** Gelin, Michel [<mailto:Gelinm@ci.newark.nj.us>]

**Envoyé :** mardi 16 août 2016 19:43

**À :** Gardner, Patricia <[Patricia.Gardner@dep.nj.gov](mailto:Patricia.Gardner@dep.nj.gov)> ([Patricia.Gardner@dep.nj.gov](mailto:Patricia.Gardner@dep.nj.gov)); Owen Nurse; Allison Kinnucan; [Dan.Kennedy@dep.nj.gov](mailto:Dan.Kennedy@dep.nj.gov)

**Cc :** Pierre Ollivier; Adebowale, Andrea

**Objet :** FW: Biotrial Next Steps

Good Afternoon,

Please see Newark response below in **red**.

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**From:** Owen Nurse [<mailto:Owen.Nurse@biotrial.com>]  
**Sent:** Friday, August 12, 2016 12:58 PM  
**To:** Gardner, Patricia; Allison Kinnucan; Adebowale, Andrea; Kennedy, Dan  
**Cc:** Pierre Ollivier; [cschneider@lssh.com](mailto:cschneider@lssh.com)  
**Subject:** RE: Biotrial Next Steps

Good afternoon, Many thanks for this response. I am glad that we seem to be making progress here towards a resolution.

I will be coordinating the flushing and testing of the lines here. Can I ask to get a copy of the liability insurance from the company that you will be using?

**Yes. Before work begins Newark will forward the contractor liability insurance**

In speaking to Chris Schneider our water consultant, we have come up with a schedule of testing that we would like performed. This is detailing out the previously agreed upon scope ("**Newark will perform a follow up water quality testing weekly for thirty days or more to determine the efficiency of the high velocity flushing. Newark will share the results on the effectiveness of the flushing.**"):

Based on what we know from the previous testing, I would recommend that the following sampling plan be implemented post- flushing to assess and evaluate the effectiveness of the main flush through the Biotrial service line.

It will be important to flush the reconnected piping prior to the meter box and also that the meter box is thoroughly flushed before taking any water samples or connecting filters.

Install 3M Aqua Pure AP910R filters as previous used to assess if particulate iron is coming from the main. I would suggest that filters be installed as noted below and water run continuously through the filters during the test period. Collect water samples as noted below.

**Newark will not participate in filter installation post flushing. Once we can demonstrate there is no discoloration in the water in a naked eye, Newark will put an end to the joint effort.**

2 business days after the flush and prior to connecting the 1<sup>st</sup> filter, collect unfiltered water samples for analysis of total iron, lead, color, turbidity, total heterotrophic bacteria and total coliform. Let water run for 5 minutes through the sampling tap prior to collecting the samples.

**Will comply**



Install 1<sup>st</sup> filter 2 business days after the flush for a 24 hour period. Collect 2 sample sets of filtered water – one sample 2 hours after installation and one sample prior to removing the filter at 24 hours. The water samples will be submitted for total iron and lead analysis. Remove and open filter housing to inspect filter for visible iron particulate.

**Newark will not participate in filter installation post flushing**

Prior to connecting second filter, collect unfiltered water samples for analysis of total iron, lead, color, turbidity, total heterotrophic bacteria and total coliform. Let water run for 5 minutes through the sampling tap prior to collecting the samples.

**Same as comment 2**

Install 2<sup>nd</sup> filter for 7 days. Collect one sample of filtered water 2 hours after installation and one sample every 24 hours during business days. The water samples will be submitted for total iron and lead analysis. Remove and open filter housing to inspect filter for visible iron particulate.

**Newark will not participate in filter installation post flushing. However, will comply with sampling**

Prior to connecting third filter, collect unfiltered water samples for analysis of total iron, lead, color, turbidity, total heterotrophic bacteria and total coliform. Let water run for 5 minutes through the sampling tap prior to collecting the samples.

**Same as comment 4**

Install 3<sup>rd</sup> filter for 14 days. Collect one sample of filtered water 2 hours after installation and one sample every 48 hours during business days. The water samples will be submitted for total iron and lead analysis. Remove and open filter housing to inspect filter for visible iron particulate.

**Same as comment 4**

After removing the third filter, collect unfiltered water samples for analysis of total iron, lead, color, turbidity, total heterotrophic bacteria and total coliform after removing last filter. Let water run for 5 minutes through the sampling tap prior to collecting the samples.

**Same as comment 4**

Please forward the certificate of insurance and suggest dates that the flush can be performed.

Thank you for your time and efforts to resolve this situation.

Owen Nurse

973-309-6219

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**From:** Gardner, Patricia [<mailto:Patricia.Gardner@dep.nj.gov>]

**Sent:** Thursday, August 11, 2016 3:25 PM

**To:** Allison Kinnucan; Adebowale, Andrea ([Adebowalea@ci.newark.nj.us](mailto:Adebowalea@ci.newark.nj.us)) ([Adebowalea@ci.newark.nj.us](mailto:Adebowalea@ci.newark.nj.us)); Kennedy, Dan

**Cc:** Owen Nurse

**Subject:** Biotrial Next Steps

Allison and Andrea,

Thank you for your prompt consideration of the options and responses to the follow up questions. Newark is willing to pay for the video surveillance of the line. Newark will be using their own contractor. The video surveillance will be performed with all parties in attendance.

As we understand that this is a pressing issue, we ask that both parties work together to accelerate the planning and scheduling for flushing.

Regards,

Pat

Patricia L. Gardner

Director, Division of Water Supply & Geoscience

Mail Code 401-04Q, PO Box 420

Trenton, NJ 08625

Phone Number: (609) 292-7219

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